	Application No.	Applicant(s)	\sim
Notice of Allowability	10/086,304	PRONKO ET AL.	
	Examiner	Art Unit	
	Edna Wong	1753	
The MAILING DATE of this communication appeall claims being allowable, PROSECUTION ON THE MERITS IS nerewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apply) or other appropriate communication IGHTS. This application is subject to	plication. If not includ will be mailed in due	led course. THIS
1. This communication is responsive to Amendemnt dated A	<u>pril 8, 2004</u> .		
2. X The allowed claim(s) is/are <u>1-28</u> .			
3. \boxtimes The drawings filed on <u>28 February 2002</u> are accepted by t	he Examiner.		•
 Acknowledgment is made of a claim for foreign priority unallimates All b) ☐ Some* c) ☐ None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	e been received. e been received in Application No		ation from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply MENT of this application.	complying with the re	equirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv			NOTICE OF
 CORRECTED DRAWINGS (as "replacement sheets") mu (a) ☐ including changes required by the Notice of Draftsper 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner Paper No./Mail Date 	son's Patent Drawing Review(PTO-		
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the drawi the header according to 37 CFR 1.121(ngs in the front (not th	e back) of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 	osit of BIOLOGICAL MATERIAL I FOR THE DEPOSIT OF BIOLOGIC	must be submitted. AL MATERIAL.	Note the
 Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date	Paper No./Mail Da	ent of Reasons for All	lowance
		Edna Worlg Primary Exam in er Art Unit: 1753	

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Linda M. Deschere on April 26, 2004.

The application has been amended as follows:

IN THE CLAIMS

Claim 23, line 3, the words -- of first laser pulses -- have been inserted after the word "beam".

Claim 23, line 4, the word "an" (first occurrence) has been deleted and replaced with the words -- a first --.

Claim 23, line 7, the word "said" has been deleted and replaced with the words -- a plasma of step a) --.

Claims 29-46 have been cancelled.

Application/Control Number: 10/086,304

Art Unit: 1753

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Claims **1-11** are allowable over the prior art of record because the prior art does not teach or suggest a method for separating isotopes of an element comprising the steps of (a) directing; (b) after step (a), allowing; and (c) after step (b), directing as presently claimed, esp., the steps of (a) directing a first laser pulse onto a surface of a target at a first energy fluence sufficient to generate a plasma comprising ionized isotopic species and to generate an internal electromagnetic scattering field causing spatial separation of said ionized isotopic species; and (c) after step (b), directing a second laser pulse onto said plasma at a second energy fluence to further spatially separate said ionized isotopic species.

The prior art does not contain any language that teaches or suggests the above.

Hora et al. do not teach the steps of (a) directing a first laser pulse onto a surface of a target at a first energy fluence sufficient to generate a plasma comprising ionized isotopic species and to generate an <u>internal</u> electromagnetic scattering field causing spatial separation of said ionized isotopic species; and (c) after step (b), directing <u>a</u> second laser pulse onto said plasma at a second energy fluence to further spatially separate said ionized isotopic species. Instead, Hora et al. teach generating an <u>external</u> electromagnetic field and directing <u>a second laser pulse onto the target</u>.

Therefore, a person skilled in the art would not have been motivated to adopt the above conditions, and a prima facie case of obviousness cannot be established.

Application/Control Number: 10/086,304

Art Unit: 1753

Claims **12-22** are allowable over the prior art of record because the prior art does not teach or suggest a method for separating isotopes of an element comprising the steps of (a) directing and (b) after step (a), directing, as presently claimed.

The prior art does not contain any language that teaches or suggests the above.
Hora et al. do not teach the steps of (a) directing a laser pulse onto a surface of a target having a first isotopic distribution, at an energy fluence sufficient to generate a plasma comprising ionized isotopic species and to generate an <u>internal</u> electromagnetic scattering field causing spatial separation of said ionized isotopic species; and (b) after step (a), directing <u>a plurality of sequentially timed delayed pumping laser pulses onto said plasma</u> to further spatially separate said ionized isotopic species. Instead, Hora et al. teach generating an <u>external</u> electromagnetic field and directing <u>a plurality of sequentially timed delayed pumping laser pulses onto the target</u>.

Therefore, a person skilled in the art would not have been motivated to adopt the above conditions, and a prima facie case of obviousness cannot be established.

Claims 23-28 are allowable over the prior art of record because the prior art does not teach or suggest a method for separating isotopes of an element comprising the steps of (a) directing; (b) after step (a), allowing; and (c) after step (b), directing as presently claimed, esp., the steps of (a) directing a first laser beam of first laser pulses onto a surface of a target at a first energy fluence sufficient to generate an internal electromagnetic scattering field causing spatial separation of said ionized isotopic species; and (c) after step (b), directing one or more timed delayed second laser pulses

Application/Control Number: 10/086,304

Art Unit: 1753

pulse onto said plasma at a second energy fluence to further spatially separate said ionized isotopic species.

The prior art does not contain any language that teaches or suggests the above. Hora et al. do not teach the steps of (a) directing a first laser beam of first laser pulses onto a surface of a target at a first energy fluence sufficient to generate an <u>internal</u> electromagnetic scattering field causing spatial separation of said ionized isotopic species; and (c) after step (b), directing <u>one or more timed delayed second laser pulses</u> onto said plasma at a second energy fluence to further spatially separate said ionized isotopic species. Instead, Hora et al. teach generating an <u>external</u> electromagnetic field and directing <u>one or more timed delayed second laser pulses onto the target</u>.

Therefore, a person skilled in the art would not have been motivated to adopt the above conditions, and a prima facie case of obviousness cannot be established.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edna Wong whose telephone number is (571) 272-1349. The examiner can normally be reached on Mon-Fri 7:30 am to 5:00 pm, alt. Fridays off.

Art Unit: 1753

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Edna Wong
Primary Examiner
Art Unit 1753

EW April 26, 2004